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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR		ATTORN	NEY DOCKET NO.	CONFIRMATION NO.		
09/763,773		02/26/2001		Ahmet Mursit Eskicioglu		RCA 89181	5177		
	7590	11/30/2004	,			EXAM	INER		
Joseph S Tr	Joseph S Tripoli						DADA, BEEMNET W		
Thomson Multimedia Licensing Inc PO Box 5312						ART UNIT	PAPER NUMBER		
Princeton, NJ 08540						2135	а		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)							
	09/763,773	ESKICIOGLU ET AL.							
Office Action Summary	Examiner	Art Unit							
	Beemnet W Dada	2135							
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statutt Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).							
Status									
1) Responsive to communication(s) filed on 8/9/6	04.								
· · · · · · · · · · · · · · · · · · ·	s action is non-final.								
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.								
Application Papers	v								
9) The specification is objected to by the Examine	er.								
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) \square objected to by the E	Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·								
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application trity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage							
Attachment(s)									
1) Notice of References Cited (PTO-892)	4) Interview Summary								
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da	ate atent Application (PTO-152)							
Paper No(s)/Mail Date	6) Other:	and the second s							

Art Unit: 2135

DETAILED ACTION

1. In communication filed on August 9, 2004, claim 11 has been amended. Claims 1-20 are pending.

Response to Arguments

2. Applicant's arguments, filed on August 9, 2004, with respect to the rejection(s)of claim(s) 1, 12 and 20 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park (US Patent 5,689,559) in view of Park (US Patent 5,796,826) (hereinafter referred to as Park '826).

Art Unit: 2135

5. As per claim 1, Park teaches a method for copying having a scrambled program content component and a control component (see for example; abstract and col 3 In 61-col 4 In 8) comprising; receiving, in a recording apparatus, said program (see for example; col 3 In 61-67); attaching a data item to said control component (see for example; col 3 In 61-col 4 In Band fig 3), said data item indicating that said program has been copied (see for example; col 3 In 25-36). The data item (CP information) contains a field indicating the current generation of the copy, thus indicating that the program has been copied. Park further discloses encrypting said data item and control component (see for example; col 4 In 1-8).

Park does not explicitly teach encrypting encrypted control component and data item to generate a nested control component. However, within the same field of endeavor Park '826 teaches a method for copy programming having a scrambled program content component [col 2, ln 48-49] and an encrypted control component [col 2, ln 50-53] including said encrypted control component [for example encrypted output of fig 7, unit 11 m G] and a data item [see for example additional information Wi, fig 7] encrypted to generate a nested control component [fig 7, unit 13, output di, col 6 ln 53-67 and col 4, ln 46 – col 5, ln 17]. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to encrypt the encrypted control component and a data item to generate a nested control component as taught by Park '826 and employ it within the copying program of Park. One of ordinary skill in the art would have been motivated to do so because such modification would allow program supplier control the reproducible number of media content, further enhancing security level [see Park '826, col 8 ln 60-67].

Art Unit: 2135

As per claim 12, Park discloses managing access to a copy of a restricted 6. program (see for example; abstract) comprising: receiving said restricted program in a processing apparatus (see for example; col 4 In 45-48), said restricted program having a scrambled program content component (see for example; col 4 In 45-58) and a control component (see for example, marker col 4 In 49-54), said control component being encrypted (see for example; col 4 In 49-54); decrypting said control component (see for example; col 4 In 49-54) to obtain a control word and a data item (see for example; control word, col 4 In 54-58 and col 6 In 21-27). The data item (CP information) contains a field indicating the current generation of the copy, thus indicating that the program has been copied. And recording said program content component and control component (see for example; col 4 In 1-19 and col 6 In 51-62). Park further discloses obtaining a descrambling key and copy control information (see ibr example; col 4 In 54-60); comparing said copy control information and said data item to determine if said copy is valid (see for example; col 5 In 54-64); and de-scrambling said program content component, using said de-scrambling key in response to a determination that said copy is valid (see for example, col 4 In 18-34 and col 5 In 56-64).

Park does not explicitly teach a nested control component, said nested control component being encrypted and decrypting said nested control component. However, within the same field of endeavor Park '826 teaches a method for copy programming having a scrambled program content component [col 2, ln 48-49] and an encrypted control component [col 2, ln 50-53] including said encrypted control component [for example encrypted output of fig 7, unit 11 m G] and a data item [see for example additional information Wi, fig 7] encrypted to generate a nested control component [fig 7, unit 13, output di, col 6 ln 53-67 and col 4, ln 46 – col 5, ln 17] and decrypting said nested control component to generate an encrypted control component and a data item

Art Unit: 2135

[see for example, figure 8, output of unit 21, bi, and col 5, In 16-25]. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to decrypt the encrypted nested control component to generate an encrypted control component and a data item as taught by Park '826 and employ it within the copying program of Park. One of ordinary skill in the art would have been motivated to do so because such modification would allows program supplier control the reproducible number of media content, further enhancing security level [see Park '826, col 8 In 60-67].

- Claims 2-7 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable 7. over Park (US Patent 5,689,559) in view of Park (US Patent 5,796,826) (hereinafter referred to as Park '826) as applied above and further in view of Mandelbaum et al (US Patent 5,544,246) (hereinafter Mandelbaum).
- 8. As per claims 2, the combination of Park and Park '826 teaches the method as applied above. However, the combination of Park and Park '826 does not explicitly teach a smart card for encrypting data. Smart cards are well known in the art to provide a plurality of cryptographic functions, including receiving, attaching, and encrypting. Furthermore, smart cards are well known in the art to provide added convenience of being easily replaceable, thus enabling a means of adding new features in a convenient manner [see Mandelbaum, Abstract and col. 6, In 53-67]. It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to combine the teachings of Mandelbaum within the Park and Park '826 combination because it would have provided convenience in updating new features or changing encryption keys to promote added security.

Art Unit: 2135

9. As per claim 3, the combination of Park, Park '826 and Mandelbaum teaches the

method as applied above. Park further discloses control component comprising of a

descrambling key associated with the scrambled program content component (see for

example; col 3 In 61-col 4 In 8). Park '826 further discloses an encrypted control

component comprises copy control information, a descrambling key associated with said

scrambling program content [col. 2 In 47-55].

10. As per claim 4, the combination of Park, Park '826 and Mandelbaum teaches the

method as applied above. Park further discloses copy control information indicating

never-copy state and copy-once state [col 3 ln 1-4].

11. As per claims 5-7 and 13-14 the combination of Park, Park '826 and

Mandelbaum teaches the method as applied above. Mandelbaum further discloses using

encryption with a global public key in smart cards (see for example col 6 In 5367), said

smart card having a corresponding private key stored therein (see for example col 6 In

52-62). Public keys are well known in the art to be secure in that no communication is

necessary to reveal any secrets in decrypting an encrypted data. It would have been

obvious to one of ordinary skill in the art a the time of the applicant's invention to encrypt

the encrypted control component of Park and Park '826 using a global public key of

Mandelbaum because it would have increased security through lower communication on

revealing the secret key and less burden of administering secrets among parties.

12. Claims 8-11 and 15-19 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Park (US Patent 5,689,559) in view of Park (US Patent 5,796,826)

(hereinafter referred to as Park '826) and further in view of Mandelbaum et al (US Patent

Art Unit: 2135

5,544,246) (hereinafter Mandelbaum) as applied above and further in view of EBU

Project Group B/CA (hereinafter EBU).

As per claims 8, 9 and 15-17, the combination of Park, Park '826 and 13. Mandelbaum teach the method as applied above. The combination of Park, Park '826 and Mandelbaum does not teach encrypting purchase information. However, EBU discloses a control component further comprises purchase information (see for example page 72-73 section 5.1). Channel identification data, event identity data, data and time stamp data, and billing data are well known in the art to be incorporated in such payment schemes and are necessary for the determination of charge amount and time of charge or production in such payment schemes as pay-perview. The concept of billing a customer for descrambling and viewing or recording of such programs are well known in the art to provide revenue to providers. EBU further discloses a smart card comprising a card body with a iolurality of terminals arranged on a surface of said card body in accordance with one of ISO 7816 (see for example, page 72 section 4.3 paragraph 1) and PCMCIA card standards (see for example, page 67 section 3.1 paragraph 2). EBU further discloses deducting the cost of said program from a cash reserve stored in said smart card to determine a calculated cash reserve (see for example; page 72 paragraphs 1-2) descrambling, in said smart card, said scrambled program content component using said descrambling key (see for example page 69 section 3.4 paragraph 4) in response to having a positive calculated cash reserve (see for example page 73 paragraph 1). It would have been obvious for one of ordinary skill in the art at the time of the applicant's invention to combine the teachings of EBU within the system of Park, Park '826 and Mandelbaum because it would have provided a means of collecting payment for services.

Art Unit: 2135

14. As per claims 10-11 and 18, the combination of Park, Park '826, Mandelbaum and EBU teaches the method as applied above. Furthermore, Park discloses a digital video cassette recorder (see for example; DVCR fig 4 and col 7 In 17-20).

- 15. As per claim 19, the combination of Park, Park '826, Mandelbaum and EBU teaches the method as applied above. EBU further discloses a smart card comprising a card body with a plurality of terminals arranged on a surface of said card body in accordance with one of ISO 7816 (see for example, page 72 section 4.3 paragraph 1) and PCMCIA card standards (see for example, page 67 section 3.1 paragraph 2).
- 16. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park (US Patent 5,689,559) in view of Park (US Patent 5,796,826) (hereinafter referred to as Park '826) and further in view of EBU Project Group B/CA (hereinafter EBU).
- 17. As per claim 20, Park discloses managing access to a copy of a restricted program (see for example; abstract) comprising: receiving said restricted program in a processing apparatus (see for example; col 4 ln 45-48), said restricted program having a scrambled program content component (see for example; col 4 ln 45-58) and a control component (see for example, marker col 4 ln 49-54), said control component being encrypted (see for example; col 4 ln 49-54); decrypting said control component (see for example; col 4 ln 49-54) to obtain a control word and a data item (see for example; control word, col 4 ln 54-58 and col 6 ln 21-27). The data item (CP information) contains a field indicating the current generation of the copy, thus indicating that the program has been copied. And recording said program content component and control component

Art Unit: 2135

(see for example; col 4 In 1-19 and col 6 In 51-62). Park further discloses obtaining a descrambling key and copy control information (see ibr example; col 4 In 54-60); comparing said copy control information and said data item to determine if said copy is valid (see for example; col 5 In 54-64); and de-scrambling said program content component, using said de-scrambling key in response to a determination that said copy is valid (see for example, col 4 In 18-34 and col 5 In 56-64).

Park does not explicitly teach a nested control component, said nested control component being encrypted and decrypting said nested control component. However, within the same field of endeavor Park '826 teaches a method for copy programming having a scrambled program content component [col 2, In 48-49] and an encrypted control component [col 2, In 50-53] including said encrypted control component [for example encrypted outp put of fig 7, unit 11 m G] and a data item [see for example additional information Wi, fig 7] encrypted to generate a nested control component [fig 7, unit 13, output di, col 6 In 53-67 and col 4, In 46 - col 5, In 17] and decrypting said nested control component to generate an encrypted control component and a data item [see for example, figure 8, output of unit 21, bi, and col 5, In 16-25]. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to decrypt the encrypted nested control component to generate an encrypted control component and a data item as taught by Park '826 and employ it within the copying program of Park. One of ordinary skill in the art would have been motivated to do so because such modification would allows program supplier control the reproducible number of media content, further enhancing security level [see Park '826, col 8 In 60-67].

The combination of Park and Park '826 does not explicitly teach transferring, from a bank, a cash to a smart card. EBU discloses use of a smart card in a conditional access system using a payment scheme (see for example; page 69 section 3.4

Art Unit: 2135

paragraph 4 and page 72-73 section 5.1), wherein a cash reserve is transferred, from a bank (see for example page 74 paragraph 21, to said smart card (see for example page 73 paragraph 1). As for the verification that a cost of said restricted program is less than the stored cash reserve and deducting the cost of said restricted program from said stored cash reserve. EBU further discloses such a payment scheme wherein viewing tokens are on a smart card (see for example; page 73 paragraph 1). The purpose of such tokens is to pay for the program or event ordered. One of ordinary skill in the art at the time of the applicant's invention would have realized such verification that the cost of said restricted program is less than the stored cash reserve before descrambling the audio/video component is necessary for such a payment scheme to be effective and that payment before descrambling is the objective of such a payment scheme. It would have been obvious for one of ordinary skill in the art at the time of the applicant's invention to combine the payment schemes of EBU within the system of Park and Park '826 because it would have provided a means of collecting payment for services.

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTP form 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

Art Unit: 2135

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

November 26, 2004

(KIM VU

SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2000